

UE21CS351A: Database Management System

MINI PROJECT USER REQUIREMENT SPECIFICATION

PES Sports Facility Booking System

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1.Introduction

- Purpose of the project

PES University has brand new sports facilities in the GJB block. As of now, students are asked to pay Rs.10000 for annual membership. Due to this, very few students, mostly hostellers, are applying for membership and utilizing the facilities. Along with this existing system, we propose a pay-and-play system for better outreach and optimal usage of the facilities by the students at our university.

- Scope of the project

This booking system can be used internally by the university.

2.Project Description

- Project overview

Objectives:-

- To provide a user interface for the students to book the sports facilities in a hassle-free manner.
- To provide a system for the management to keep track of these bookings and memberships.

- Major project functionalities

- Students login with their SRN and password.
- They view the available sports, their facilities, and coaches (if available).

- They book these facilities in available time slots.
- They are allowed to book only one slot per day.
- The slots available for up to the next 3 days are readily displayed.
- The rates per slot for every sport/facility are made available to the users.
- Members need not pay when booking and should be given preference.
- Weekends are reserved for members.
- Students can provide feedback on the facilities.

3. System Features and Function Requirements

- System Feature 1: User Authentication and Information
 - Functional Requirement:
 - Users (Students) must log in using their SRN (Student Registration Number) and password.
 - Users' details such as SRN, name, sex, membership plan, and validity should be accessible.
- System Feature 2: Facility Information
 - Functional Requirement:
 - Users should be able to view a list of available sports and their facilities.
 - Information about coaches (if available) should also be accessible.
- System Feature 3: Booking Facilities
 - Functional Requirement:
 - Users should be able to book sports facilities in available time slots.
 - Users are allowed to book only one slot per day.
 - The system should display available slots for up to the next 3 days.
 - Rates per slot for each sport/facility must be provided to the users.
- System Feature 4: Membership and Pay-and-Play
 - Functional Requirement:
 - Members should be able to access facilities without paying for each booking.
 - Non-members (pay-and-play users) should book a time slot and make a payment for facility usage.
- System Feature 5: Booking Preference
 - Functional Requirement:
 - Members should be given preference for bookings.
 - Weekends should be reserved for members.
- System Feature 6: Feedback System
 - Functional Requirement:
 - Students should have the option to provide feedback on the facilities.
- System Feature 7: Admin Management

- Functional Requirement:
- Admins should have access to user details, including SRN, name, sex, membership plan, and validity.
- Admins should be able to manage bookings made by users.
- Admins should monitor revenue generated through bookings.
- Admins must be able to view user feedback.